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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,035	08/18/2003	David M. Geibel	ABPT-0201/B990661	3228
23377	7590	11/23/2004	EXAMINER	
WOODCOCK WASHBURN LLP ONE LIBERTY PLACE, 46TH FLOOR 1650 MARKET STREET PHILADELPHIA, PA 19103			MAI, ANH T	
			ART UNIT	PAPER NUMBER
			2832	

DATE MAILED: 11/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/643,035

Applicant(s)

GEIBEL, DAVID M.

Examiner

Anh T. Mai

Art Unit

2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 9 and 12-30 is/are pending in the application.
- 4a) Of the above claim(s) 9, 12-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 21-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

Claims 9, 12-20 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on October 15, 2004.

In the instant application, claims 21-30 have been examined.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 21-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

What does applicant intend by “cured and filler-less epoxy compound”? Does applicant imply “cured filler-less structure” or “cure epoxy structure”? What is “sight bowl”? Is it the bowl inside the transformer bushing? Term “ultraviolet light absorbers” is unclear. Applicant is required to specify.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2832

4. Claims 21-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bowman et al. [4594475] in view of Eisberg et al. [6074595].

Bowman discloses a transformer tank, bushing 5 coupled to transformer and bushing bowl 15 [see fig 1].

An electrical insulating bushing is generally indicated at 5 and is employed on a tank of an electrical apparatus, such as a transformer, circuit breaker, or the like, for connecting leads from the electrical apparatus contained within the tank to an exterior electrical circuit. The bushing 5 comprises an outer shell or tubular housing 7, a mounting annulus 9 having a flange 11, a lower shell or housing 13, and a bushing bowl 15. The tubular housing 7 is composed of a dielectric material, such as an epoxy resin or porcelain, and is mounted on the metallic annulus 9 which extends through an opening 17 in a tank wall 19 and where it is secured in place in a conventional manner such as by a plurality of spaced bolts extending through the mounting flange 11. The lower shell or housing 13 is likewise composed of a dielectric material, such as an epoxy resin or porcelain, and is secured in a fluid-tight manner to the lower end of the annulus 9.

Bowman discloses the invention as claimed as cited above except for the material of the bowl being transparent and comprising a cured and filler-less epoxy compound. Eisberg discloses a rigid, three-dimensional, transparent structure comprising a cured filler-less epoxy compound having a cylindrical structure [abstract; lns 1-22 and col 8, lns 44-46].

With respect to claim 23, Eisberg discloses a rigid, three dimensional, transparent structure wherein the cured filler-less epoxy compound being cycloaliphatic epoxy resin [col 5, lns 21-24]

With respect to claims 24, 28 Eisberg discloses a rigid, three dimensional, transparent structure wherein the cured filler-less epoxy compound is anhydride cured [col 5, lns 21-24].

(21) The particularly preferred second resin system includes a well known cycloaliphatic epoxy resin and an acid anhydride curing agent which system is curable at elevated temperatures in the range of about 70.degree. C. to about 175.degree. C.

Art Unit: 2832

With respect to claim 25, Eisberg discloses a rigid, three dimensional, transparent structure wherein the cured filler-less epoxy compound containing ultraviolet light absorbers [col 5, lns 39-50]

Photoinitiators suitable for ultraviolet (UV) radiation-curing of acrylic, methacrylic and vinyl monomers include free radical-generating UV initiators, such as benzophenone, diethoxy-acetophenone and the like. Infrared initiators include cumene hydroperoxide, benzoyl peroxide, asobisisobutyronitrile, and also azo and peroxide compounds. When the radiation-curable first resin system includes an epoxy resin, the photoinitiator may be a UV initiator which liberates a Lewis acid and/or Bronsted acid, such as iodonium salts, sulfonium salts, arsonium salts and diazonium salts.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to use material as taught by Eisberg to the bowl of Bowman. The motivation would have been to provide the pressure reinforced material for the bowl. Therefore, it would have been obvious to combine Eisberg with Bowman.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Scott [4543730].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2832

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ANH MAI
PRIMARY EXAMINER